

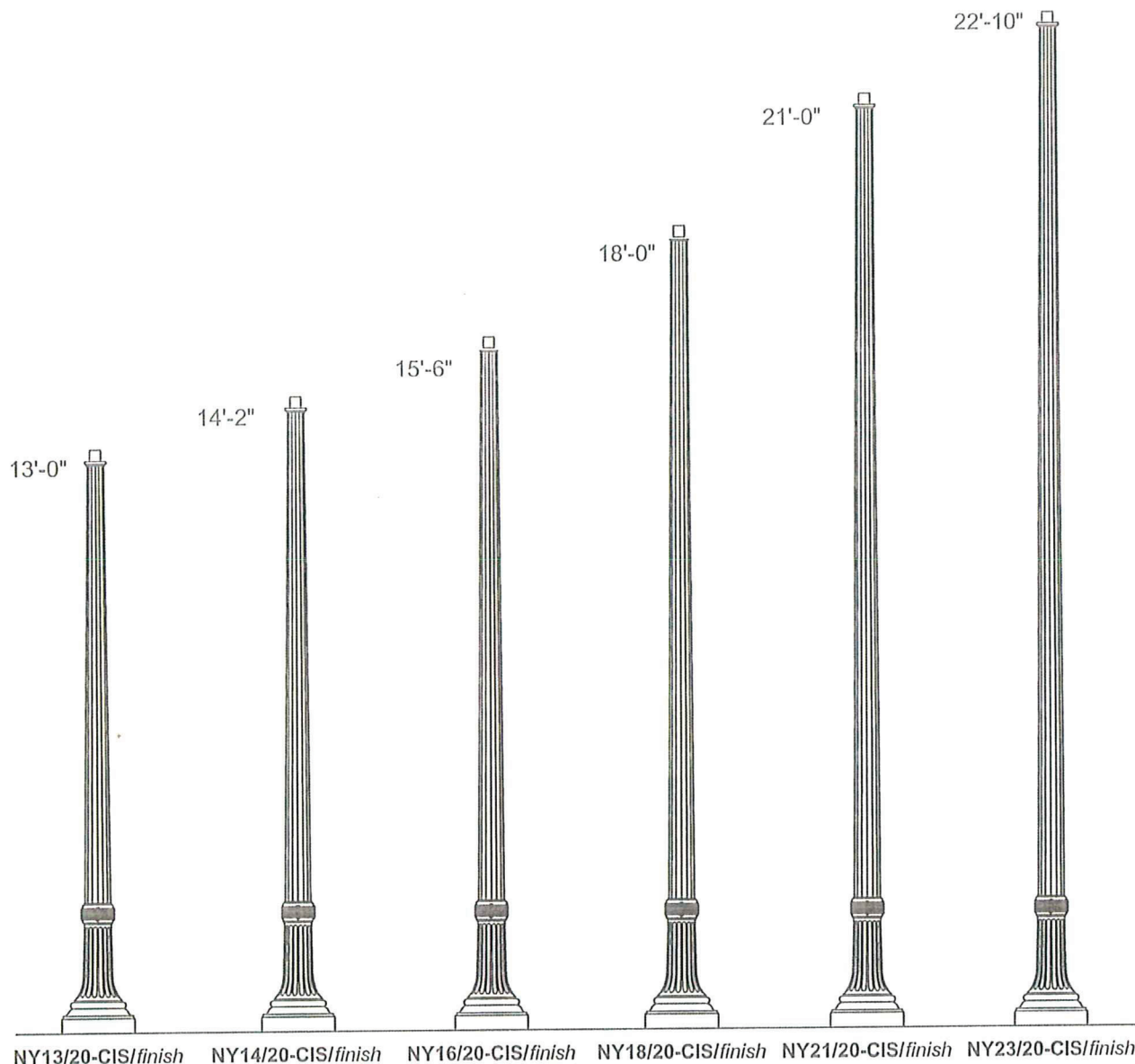
Sample Products

ATTACHMENT A

Cast Iron & Steel Posts tapered fluted shafts

NORTH YORKSHIRE Series

20" dia. base



SPECIFICATIONS

DESCRIPTION

The lighting post shall be cast iron and steel construction, massively tapered with a deep, 16-flute steel shaft and a classic 16-flute cast iron base. The shaft and base shall be joined together at the factory and shipped as one piece. Slipover, clamshell, or other multiple piece post designs are not acceptable. The post shall be Holophanes' catalog number N YXX/20-CIS/finish.

MATERIALS

The post base material shall be ASTM A48 Class 30 cast iron, formed true to the pattern with complete detail. The shaft shall be tapered and fluted steel with an integral steel tenon and steel bottom cap. All exposed hardware shall be tamper resistant stainless steel. Anchor bolts to be completely hot dip galvanized. Partially galvanized bolts are not acceptable.

DIMENSIONS

The post shall be X'-XX" in height with a 20" diameter base. The post shall taper from a 7" diameter at the top of the base to a 4 1/2" diameter

at the post top. An integral 3" O.D. tenon shall be provided at the top for luminaire mounting. The post top shall include a transitional donut between the fluted shaft and the tenon.

INSTALLATION

The one-piece post shall be provided with four 3/4" diameter, L-type anchor bolts to be installed on a 15" diameter bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

For finish specifications and color options, see "Finish" section in catalog.

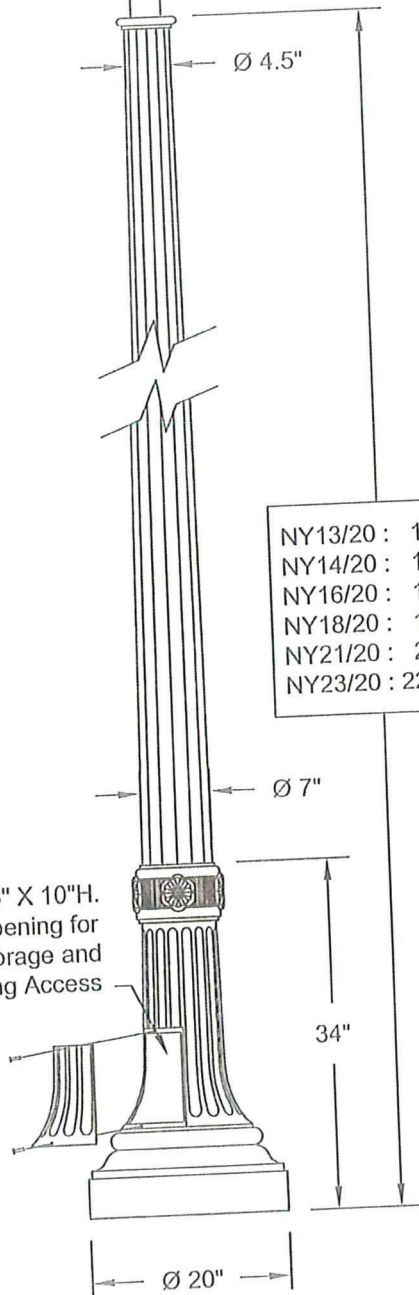
HOLOPHANE® An Acuity Brands Company
LEADER IN LIGHTING SOLUTIONS 214 OAKWOOD AVENUE - NEWARK, OHIO 43055

NORTH YORKSHIRE Series

Cast Iron & Steel Posts 20" dia. base

3" O.D. x 3" High Tenon

4" X 6.5" X 10"H.
Door Opening for
Anchorage and
Wiring Access



NY13/20 : 13'-0"
NY14/20 : 14'-2"
NY16/20 : 15'-6"
NY18/20 : 18'-0"
NY21/20 : 21'-0"
NY23/20 : 22'-10"

ORDERING GUIDE

sample catalog number

Post	material / finish	options
NORTH YORKSHIRE 13'-0" height 20" dia. base	Cast Iron & Steel Prime Painted	

Post	(check appropriate boxes)
Catalog #	Heights
<input type="checkbox"/> NY13/20	13'-0"
<input type="checkbox"/> NY14/20	14'-2"
<input type="checkbox"/> NY16/20	15'-6"
<input type="checkbox"/> NY18/20	18'-0"
<input type="checkbox"/> NY21/20	21'-0"
<input type="checkbox"/> NY23/20	22'-10"

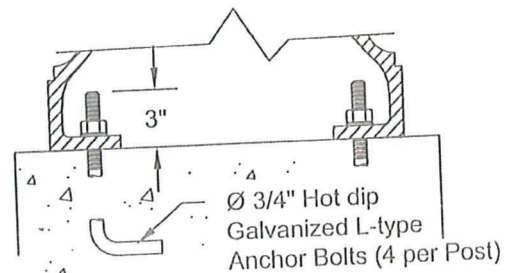
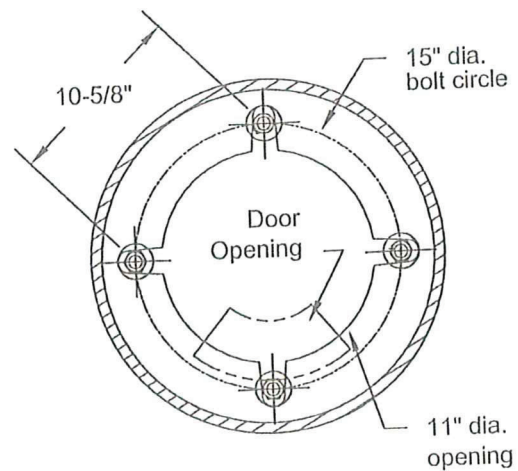
Material/Finish	Description
Catalog Suffix	
<input type="checkbox"/> -CIS/BK	Cast Iron & Steel/Black (std.)
<input type="checkbox"/> -CIS/DG	Cast Iron & Steel/Dark Green
<input type="checkbox"/> -CIS/DB	Cast Iron & Steel/Dark Bronze
<input type="checkbox"/> -CIS/PP	Cast Iron & Steel/Prime Painted
<input type="checkbox"/> -CIS/CC	Cast Iron & Steel/Custom Color

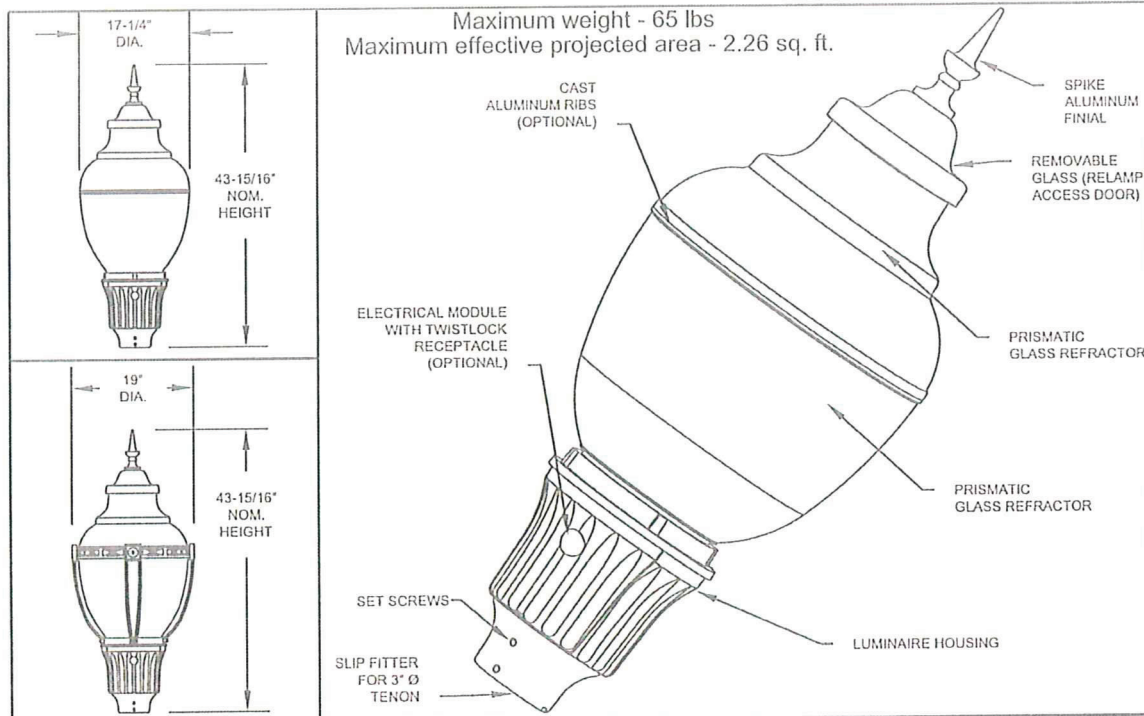
(for complete finish and color options, see "Finish" section in catalog)

Optional Equipment	Description
Catalog Suffix	
<input type="checkbox"/> -	Receptacles (see Accessories section)
<input type="checkbox"/> -	Banner Arms (see Accessories section)
<input type="checkbox"/> -	Flag Pole Holders (see Accessories section)
<input type="checkbox"/> -	Custom Logos (see Accessories section)
<input type="checkbox"/> -	Signage (see Signage section)

(for optional equipment not found in catalog, consult factory)

ANCHORAGE GUIDE





Utility Washington Postlite®
Series Luminaire

DECORATIVE
OUTDOOR

HOLOPHANE®
LEADER IN LIGHTING SOLUTIONS
An *Acuity Brands* Company

ORDERING INFORMATION:

WAW
WAW 15AHP

BALLAST TYPE (MOGUL BASE)
050HP = 50W HPS
(NOT AVAIL. W/ 347V)
070HP = 70W HPS
100HP = 100W HPS
15AHP = 150W 55V HPS
175MH = 175W MH
100MV = 100W MV
175MV = 175W MV
250MV = 250W MV
(NOT AVAIL. w/ multi-tap or C.U.L.)

BALLAST TYPE (MEDIUM BASE)
50DHP = 50W HPS
(NOT AVAIL. W/ 347V)
70DHP = 70W HPS
100DHP = 100W HPS
150DHP = 150W 55V HPS
70DMH = 70W MH
(NOT AVAIL. W/ 450V)
100DMH = 100W MH
(NOT AVAIL. W/ 450V)
150DMH = 150W MH
(NOT AVAIL. W/ 450V)
170DMH = 175W MH

12

VOLTAGE
00 = 208 VOLT (C.U.L.)
(not available with 700MH, 100MH, 150MH)
12 = 120 VOLT (V.L. & C.U.L.)
20 = 208 VOLT
24 = 240 VOLT
27 = 277 VOLT (V.L. & C.U.L.)
34 = 347 VOLT (C.U.L.)
40 = 240 VOLT (C.U.L.)
(not available with 700MH, 100MH, 150MH)
48 = 480 VOLT
MA = MULTITAP (factory 120V, 120, 208, 240, 277 VOLT)
MB = MULTITAP (factory 208V, 120, 208, 240, 277 VOLT)
MC = MULTITAP (factory 240V, 120, 208, 240, 277 VOLT)
MD = MULTITAP (factory 277V, 120, 208, 240, 277 VOLT)

N

HOUSING COLOR
A = AS SPECIFIED
B = BLACK
D = DARK GREEN
TIGER DRYLAC RAL6005
E = BROWN GREEN
TIGER DRYLAC RAL6008
F = DARK GREEN
TIGER DRYLAC RAL6009
H = DARK GREEN
TIGER DRYLAC RAL6012
N = GREEN
Z = BRONZE

3

OPTICS
3 = IES TYPE III DISTRIBUTION
4 = IES TYPE IV DISTRIBUTION
5 = IES TYPE V DISTRIBUTION
6 = IES TYPE II DISTRIBUTION LUNAR
7 = IES TYPE III DISTRIBUTION LUNAR
8 = IES TYPE V DISTRIBUTION LUNAR

DECORATIVE TRIM COLOR
A = AS SPECIFIED
B = BLACK
D = DARK GREEN
TIGER DRYLAC RAL6005
E = BROWN GREEN
TIGER DRYLAC RAL6008
F = DARK GREEN
TIGER DRYLAC RAL6009
H = DARK GREEN
TIGER DRYLAC RAL6012
G = GOLD
N = GREEN
Z = BRONZE

4

DECORATIVE TRIM
1 = BAND, MEDALLIONS, & BUD FINIAL
2 = BAND, MEDALLIONS, & SPIKE FINIAL
3 = BUD FINIAL
4 = SPIKE FINIAL
5 = BUD FINIAL, BAND, & RIBS
6 = SPIKE FINIAL, BAND, & RIBS
7 = BAND, MEDALLIONS, & ORNATE FINIAL
8 = ORNATE FINIAL
9 = ORNATE FINIAL, BAND, & RIBS

OPTIONS

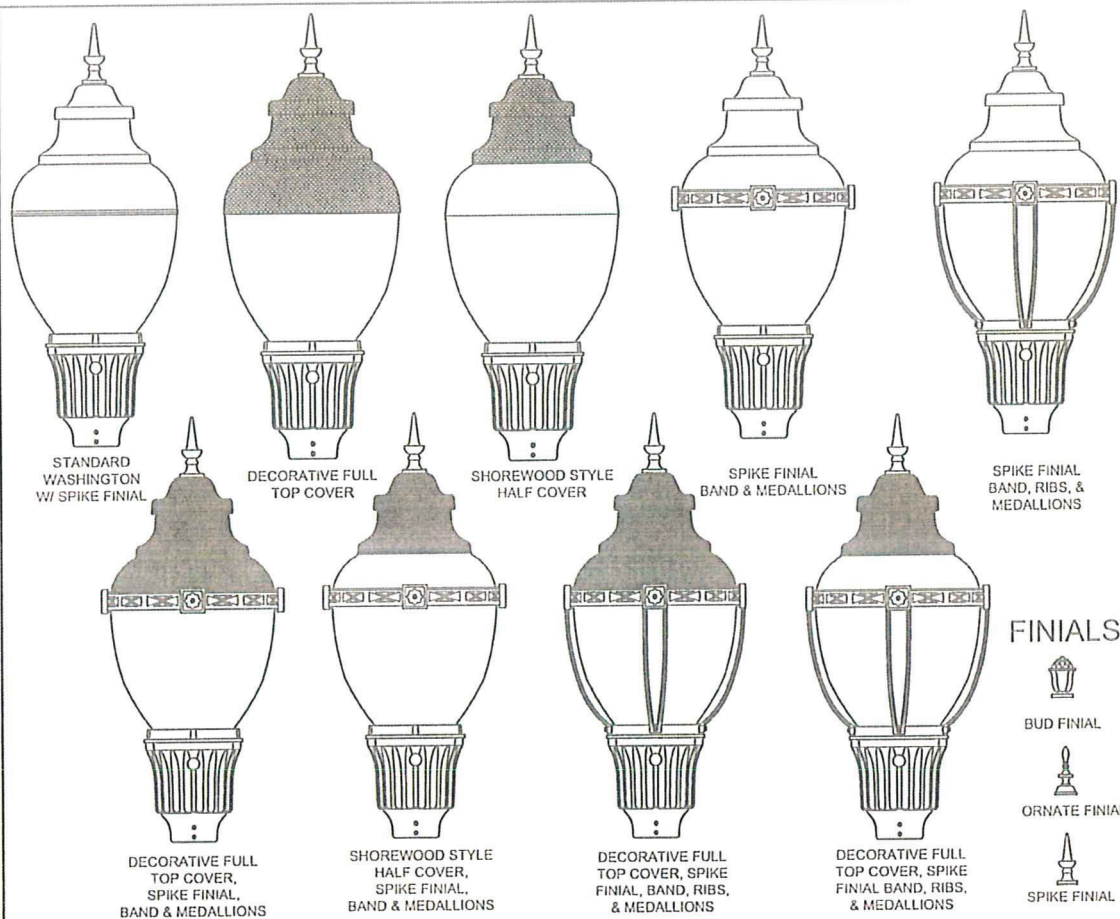
F = FULL DECORATIVE ALUMINUM TOP COVER
H = NEMA TWISTLOCK PHOTOCONTROL RECEPTACLE ONLY
P = PROTECTED STARTER FOR HPS UNITS ONLY
S = SHOREWOOD ALUMINUM TOP STYLE COVER (1/2 COVER)
T = NEMA TWISTLOCK AND PROTECTED STARTER (FOR HPS UNITS ONLY).
NEMA050HP = NEMA LABEL 50 HPS
NEMA070HP = NEMA LABEL 70 HPS
NEMA100HP = NEMA LABEL 100 HPS
NEMA150HP = NEMA LABEL 150 HPS
NEMA070MH = NEMA LABEL 70 MH
NEMA100MH = NEMA LABEL 100 MH
NEMA150MH = NEMA LABEL 150 MH
NEMA175MH = NEMA LABEL 175 MH
NEMA100MV = NEMA LABEL 100 MV
NEMA175MV = NEMA LABEL 175 MV
PCTWSTL120 = DTL TWISTLOCK PHOTOCONTROL 120 VOLT
PCTWSTL12202427 = DTL TWISTLOCK PHOTOCONTROL 120-277 VOLT
PCTWSTL480 = DTL TWISTLOCK PHOTOCONTROL 480 VOLT
PCTWSTSHRTCAP = SHORTING CAP
LEADS1.5FT10GA = 1.5 FEET OF PREWIRED LEADS
LEADS3FT10GA = 3 FEET OF PREWIRED LEADS
LEADS10FT10GA = 10 FEET OF PREWIRED LEADS
LEADS20FT10GA = 20 FEET OF PREWIRED LEADS
LEADS25FT10GA = 25 FEET OF PREWIRED LEADS
LEADS30FT10GA = 30 FEET OF PREWIRED LEADS

ACCESSORIES

LAMP = SHIP APPROPRIATE LAMP AS LINE ITEM. SEE LAMP SHEET
IG-5 = PLUG-IN REPLACEMENT STARTER FOR HPS UNITS
IG-6 = PLUG-IN REPLACEMENT PROTECTED STARTER FOR HPS UNITS
IG-7 = PLUG-IN REPLACEMENT STARTER FOR 70/100/150MH UNITS
WHS090 = HOUSE SIDE SHIELD, 90 DEGREES
WHS120 = HOUSE SIDE SHIELD, 120 DEGREES
WHS180 = HOUSE SIDE SHIELD, 180 DEGREES

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE. NO CHANGES WILL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE HOLOPHANE COMPANY. THE SUPPLIER SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF THE MATERIAL. THE MATERIAL SHALL BE SUPPLIED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B. THE MATERIAL SHALL BE LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

ORDER #:
TYPE: WAW
DRAWN: WAW
DATE: 2-08-06
DWG #: LUM_WAW



Utility Washington Postlite®

Series Luminaire

DECORATIVE
OUTDOOR

HOLOPHANE®
LEADER IN LIGHTING SOLUTIONS
An *Utility Brands Company*

Specifications

GENERAL DESCRIPTION

The Utility Washington Postlite luminaire is designed for ease of maintenance with the plug-in electrical module common to each of the luminaires in Holophane's Utility Luminaire Series. The traditional acorn shaped luminaire, while reminiscent of the 1920's, contains a precision optical system that maximizes post spacings while maintaining uniform illumination.

OPTICAL SYSTEM

The optical assembly is a precisely molded thermal resistant borosilicate glass reflector and refractor. The upper portion of this system incorporates a series of reflecting prisms that redirect over 50% of the upward light into the controlling refractor while allowing a soft uplight component to define the traditional acorn shape. Two decorative aluminum top cover options are available. The lower portion uses precisely molded refracting prisms to control the distribution of light to maximize utilization, uniformity, and luminaire spacing. The very top of this assembly is a removable prismatic glass cover with decorative finial for toolless entry into the lamp chamber. Three unique optical assemblies are available, designed for IES type III, type IV, and type V distribution.

LUMINAIRE HOUSING

The luminaire housing, cast of aluminum, provides an enclosure for the plug-in electrical module. The nickel plated lamp grip socket and three station incoming line terminal block are prewired to a five conductor receptacle for ease in connection the electrical module. The slipfitter will accept a 3" by 2-7/8" to 3-1/8" O.D. tenon.

LUMINAIRE HOUSING / DOOR

Cast of aluminum, the housing / door is removable without the use of tools and is retained by a nonconductive lanyard, attached to the door and to the housing. For units with an E.E.I.-N.E.M.A. twist lock photocell receptacle, the door contains an acrylic "window" to allow light to reach the cell.

ELECTRICAL MODULE

The ballast components are mounted on a steel plate that is removable without the use of tools. A matching five conductor plug connects to the receptacle in the luminaire housing to complete the wiring. Where a starting aid is required, it is provided with a separate plug-in connector and can be replaced without the use of tools. For photoelectric operation, the electrical module is provided with an E.E.I.-N.E.M.A. twist lock photocell receptacle.

BALLASTS

(Refer to Ballast Data Sheet for specific operation characteristics)

50 watt 120 volt High Pressure Sodium (HPS) ballasts are High Power Factor Reactor type. All other HPS ballast are High Power Factor Autotransformer type.

175 watt Metal Halide (MH) ballasts are Peak Load Autotransformer type. 70 and 100 watt MH units are available only with High Power Factor High Reactance type ballast.

All Mercury Vapor (MV) ballasts are High Power Factor Constant Wattage Autotransformer (CWA) type.

FINISH

The luminaire is finished with polyester powder paint applied after a seven stage pretreatment process to insure maximum durability.

UL

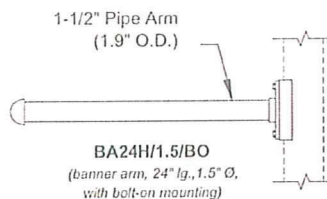
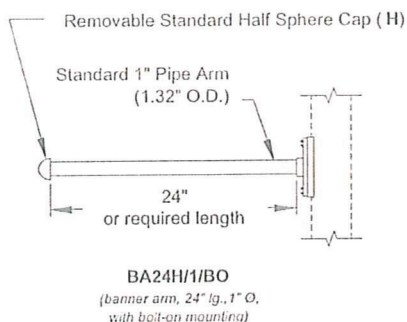
The luminaire is UL listed as suitable for wet locations at a maximum of 40 degrees C ambient temperature.

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE. NO CHANGES OR MODIFICATIONS SHALL BE MADE WITHOUT THE WRITING, ON FILE, ORDERING AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN THE WRITING. THE PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON DEPOSIT OF A \$50.00 REFUNDABLE CHECK. IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

ORDER #:
TYPE:
DRAWN: AWU
DATE: 2-08-06
DWG #: LUM_WAU

Banner Arms

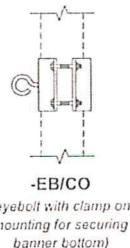
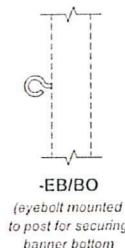
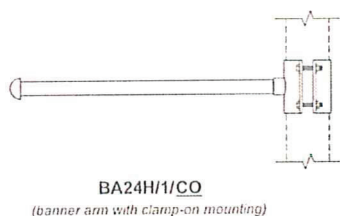
Cast Aluminum



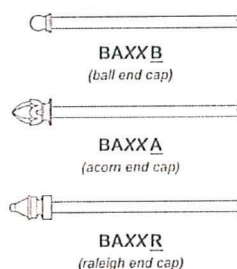
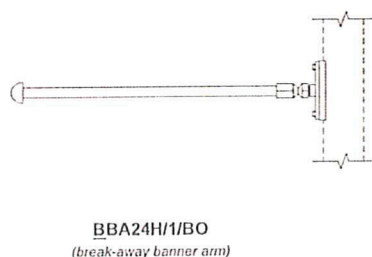
Other size Banner Arms Available:

BAXXH/.75	BAXXH/1.25
(banner arm, XX" lg., 3/4" pipe (1.05" O.D.))	(banner arm, XX" lg., 1-1/4" pipe (1.66" O.D.))

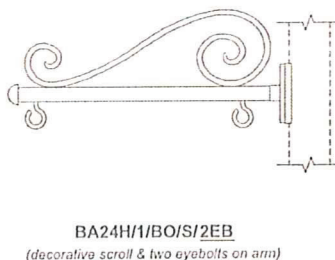
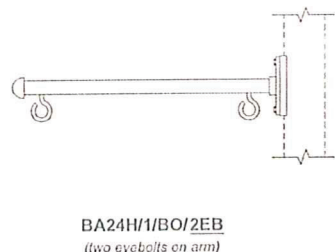
OTHER MOUNTING OPTIONS



OTHER OPTIONS



CUSTOMS



Banner arms can add substantial wind loading to the post you select.
Please coordinate the correct post size and style with the factory.

SPECIFICATIONS

DESCRIPTION

The banner arms shall consist of a round, extruded aluminum pipe and a removable cast aluminum end cap. Bottom eyebolts and banner arms with breakaway couplings, are optional and recommended because of the wind load from the banner.

CONSTRUCTION

The banner arm shall be welded to a mounting plate or a post clamp. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per ANSI/AWS D1.2-90 Section 5.

MATERIALS

The end caps shall be, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The banner arm, mounting plate and post clamp shall be aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be stainless steel.

INSTALLATION

The bolt-on banner arm shall bolt to a mounting channel provided on the side of the post with four stainless steel screws. Eyebolts shall screw into the post or clamp on. All clamp-on mountings shall clamp around the post, secured with four 3/8" hex head bolts. (Post dia. at mounting point must be specified.) A minimum mounting height of 10 feet is recommended for the bottom banner arm. (Arms are not designed for pedestrian interference.) (For information on specifying orientation and mounting heights see "Orientation Guide" in the back of the Accessories section of catalog.) (Banners to be provided by others.)

DIMENSIONS

The banner arms shall be available in 1.05", 1.32", 1.66" or 1.9" O.D. and to the specified length.

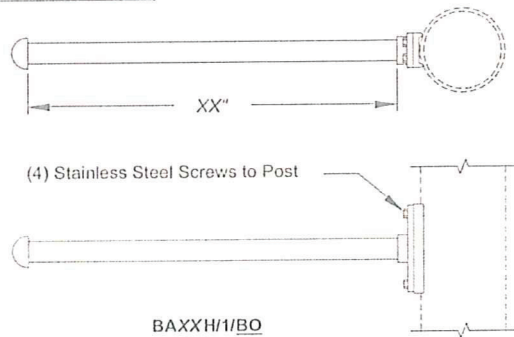
For finish specifications and color options see "Finish" section in catalog.


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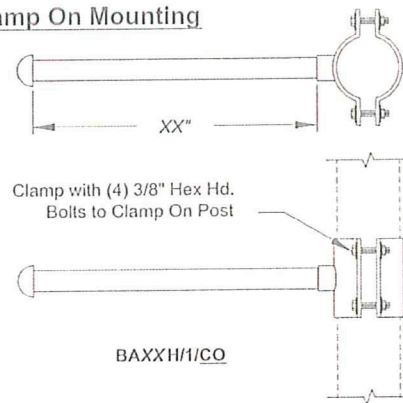
Banner Arms Cast Aluminum

MOUNTING DETAILS

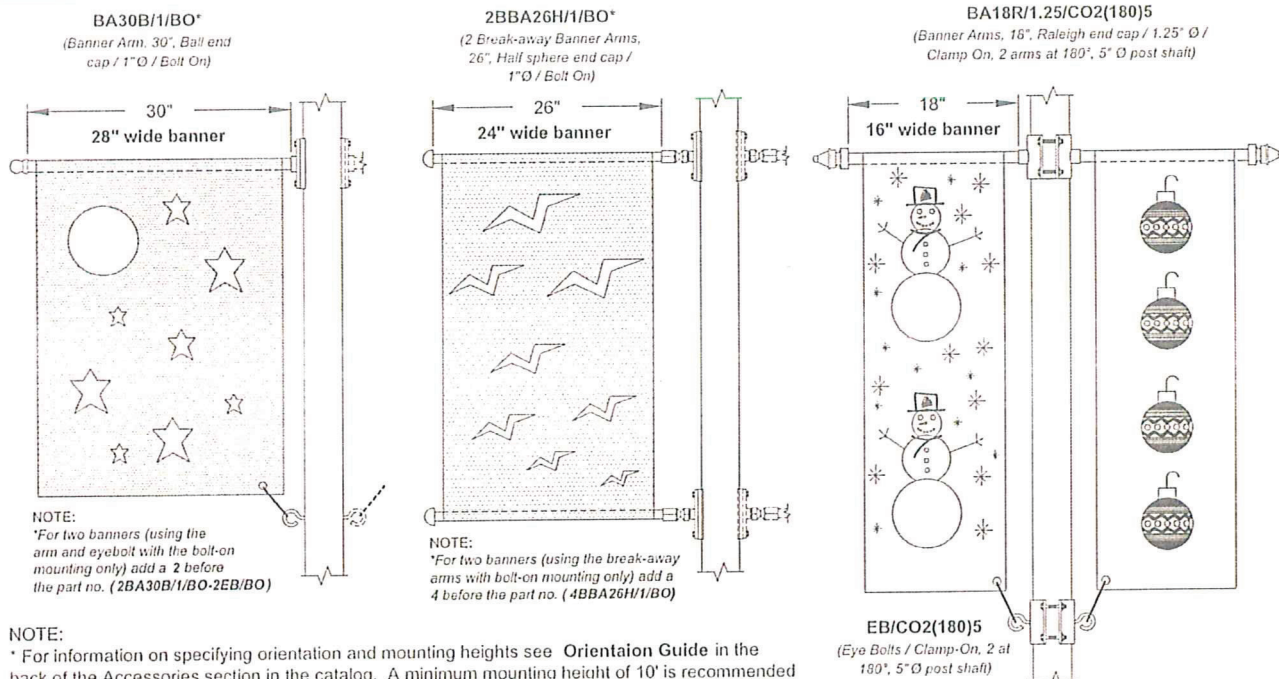
Bolt-On Mounting




Clamp On Mounting



SUGGESTED BANNER ARM USAGE

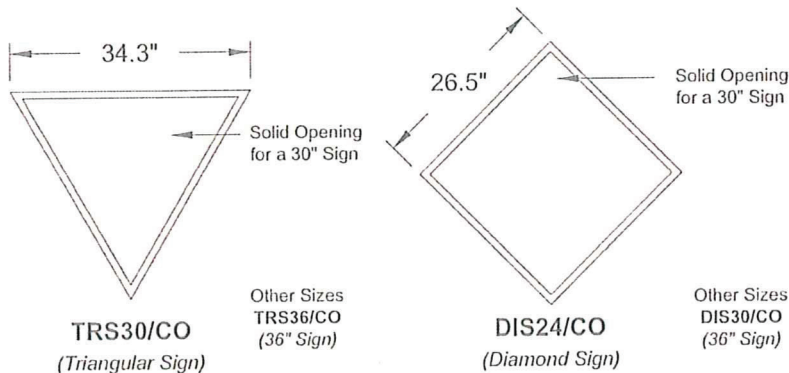
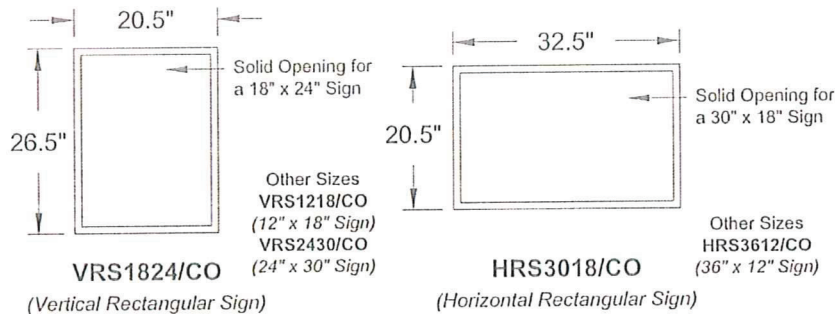
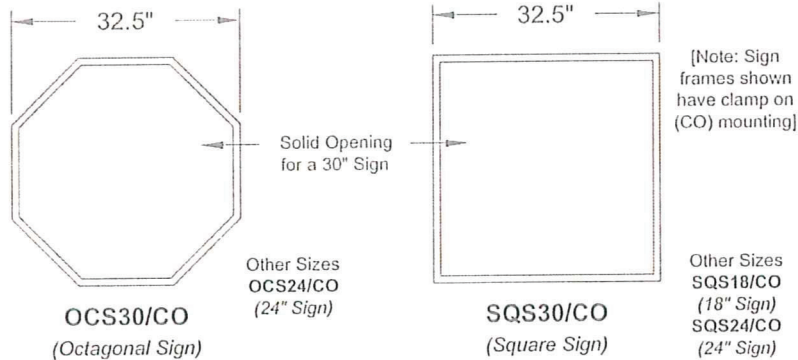


NOTE:
* For information on specifying orientation and mounting heights see **Orientation Guide** in the back of the Accessories section in the catalog. A minimum mounting height of 10' is recommended for the bottom banner arm.
* Banners not furnished by Holophane.

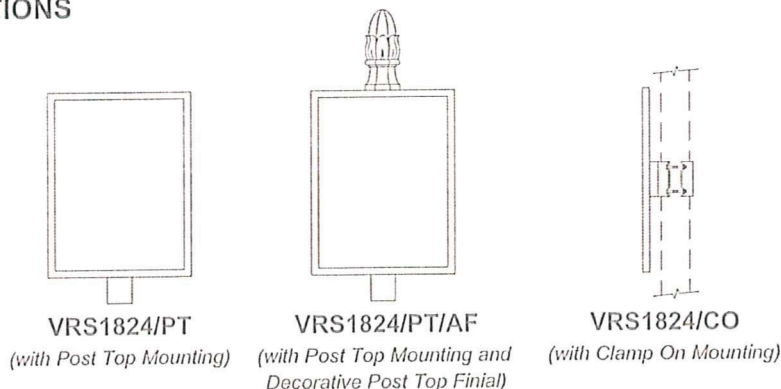
ORDERING GUIDE		sample catalog number	banner arm, end cap / Arm Ø / mounting option	-eyebolt -material / finish
		2BBA24H/1/BO-2EB/BO-CA/BK	2BBA24 H / 1 / BO	-2EB/BO -CA/BK
Banner Arms (check appropriate boxes) (fill in ___ with desired arm length in inches) <input type="checkbox"/> BA ___ Std. Banner arm <input type="checkbox"/> BBA ___ Break-away Banner arm		Mounting Options (fill in ___ with diameter of post shaft, at clamp, in inches) <input type="checkbox"/> /BO Bolt On (Bolts onto Post) <input type="checkbox"/> /CO Clamp On (Clamps around Post) <input type="checkbox"/> /CO2(180) ___ Clamp On (two arms at 180°) <input type="checkbox"/> /CO2(90) ___ Clamp On (two arms at 90°) <input type="checkbox"/> /CO3(90) ___ Clamp On (three arms at 90°) <input type="checkbox"/> /CO4(90) ___ Clamp On (four arms at 90°)		
Banner Arm End Caps <input type="checkbox"/> H Std. Half Sphere Cap <input type="checkbox"/> B Ball Cap <input type="checkbox"/> A Acorn Cap <input type="checkbox"/> R Raleigh Cap		Options <input type="checkbox"/> /2EB Two Eyebolts on Arm <input type="checkbox"/> /S/2EB Decorative Scroll & Eyebolts on Arm		
Banner Arm Diameters <input type="checkbox"/> /1.75 3/4" Pipe (1.05" O.D.) <input type="checkbox"/> /1 Std. 1" Pipe (1.32" O.D.) <input type="checkbox"/> /1.25 1-1/4" Pipe (1.66" O.D.) <input type="checkbox"/> /1.5 1-1/2" Pipe (1.9" O.D.)		Eyebolts (for securing banner bottom) (fill in ___ with diameter of post shaft, at clamp, in inches) <input type="checkbox"/> -EB/BO Bolt On Eyebolt (Bolts onto Post) <input type="checkbox"/> -EB/CO ___ Clamp On Eyebolt (Clamps around Post) <input type="checkbox"/> -EB/CO2(180) ___ Clamp On Eyebolt (two arms at 180°) <input type="checkbox"/> -EB/CO2(90) ___ Clamp On Eyebolt (two arms at 90°) <input type="checkbox"/> -EB/CO3(90) ___ Clamp On Eyebolt (three arms at 90°) <input type="checkbox"/> -EB/CO4(90) ___ Clamp On Eyebolt (four arms at 90°)		
		Material / Finish <input type="checkbox"/> -CA/BK Cast Alum./Black (Std.) <input type="checkbox"/> -CA/DB Cast Alum./Dark Bronze <input type="checkbox"/> -CA/DG Cast Alum./Dark Green <input type="checkbox"/> -CA/CC Cast Alum./Custom Color <input type="checkbox"/> -CA/PP Cast Alum./Prime Painted		
		 An Acuity Brands Company LEADER IN LIGHTING SOLUTIONS 2140 AKW OGD AVENUE • NEWARK, NJ 07102		
		US-2400		

Traffic Signs

Cast Aluminum Frames



OPTIONS



SPECIFICATIONS

DESCRIPTION

The traffic sign frame shall be a one-piece casting with a solid backing and a 1" thick border. The sign frame shall be an octagonal, square, rectangular, triangular, or diamond shaped.

CONSTRUCTION

The sign frame shall be welded to a post clamp or a post top fitter. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per ANSI/AWS D1.2-90 Section 5.

MATERIALS

The sign frame shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The post top fitter and post clamp shall be aluminum, ASTM 6061, heat treated to a T6 temper. All hardware shall be stainless steel.

INSTALLATION

The clamp-on sign frame shall clamp around the post, secured with four 3/8" hex head bolts. (Post diameter at mounting point must be specified.) The post top mounting shall fit on a 3" OD x 3" tall tenon with six 1/4" diameter socket set screws. (Lettering and graphics provided by others)

DIMENSIONS

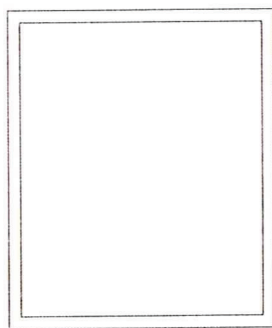
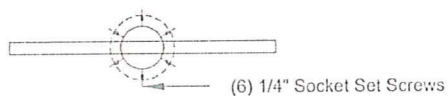
The traffic sign dimensions shall be as shown on the drawings. Other sizes are available. Contact Holophane for more information. For finish specifications and color options see "Finish" section of catalog.

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An Acuity Brands Company
214 OAKWOOD AVENUE - NEWARK, OHIO 43055

Traffic Signs Cast Aluminum Frames

MOUNTING OPTIONS

Post Top Mounting

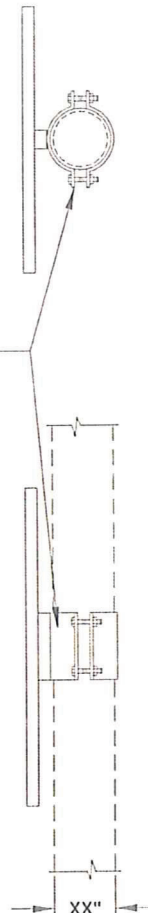
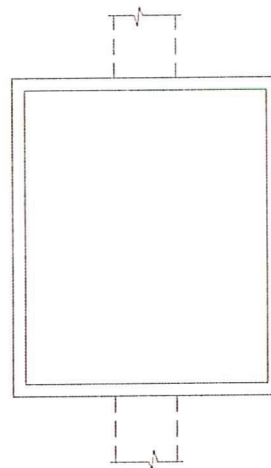


(6) 1/4" Socket Set Screws
Slip Fits 3" O.D. x 3" High Tenon

VRS1824/PTXX

Clamp-On Mounting

Clamp with (4) 3/8" Hex Hd. Bolts to Clamp On Post



VRS1824/COXX

ORDERING GUIDE

sample catalog number	Sign Frame	Mounting Option	Decorative Option	Material / Finish
OCS30/PT/AF-CA/BK	OCS30 Octagonal Sign 30"	PT Post Top	AF Acorn Finial	-CA/BK Cast Aluminum/Black

Sign Frames (check appropriate boxes)

Octagonal Frames

- ☐ OCS24 24" Sign
☐ OCS30 30" Sign

Square Frames

- ☐ SQS18 18" Sign
☐ SQS24 24" Sign
☐ SQS30 30" Sign

Vertical Rectangular Frames

- ☐ VRS1218 12" x 18" Sign
☐ VRS1824 18" x 24" Sign
☐ VRS2430 24" x 30" Sign

Horizontal Rectangular Frames

- ☐ HRS3018 30" x 18" Sign
☐ HRS3612 36" x 12" Sign

Triangular Frames

- ☐ TRS30 30" Sign
☐ TRS36 36" Sign

Diamond Frames

- ☐ DIS24 24" Sign
☐ DIS30 30" Sign

Material / Finish

- ☐ -CA/BK Cast Alum./Black (Std.)
☐ -CA/DB Cast Alum./Dark Bronze
☐ -CA/DG Cast Alum./Dark Green
☐ -CA/CC Cast Alum./Custom Color
☐ -CA/PP Cast Alum./Prime Painted



An Acuity Brands Company
214 OAKWOOD AVENUE • NEWARK, OHIO 43055

US-2309

Mounting Options

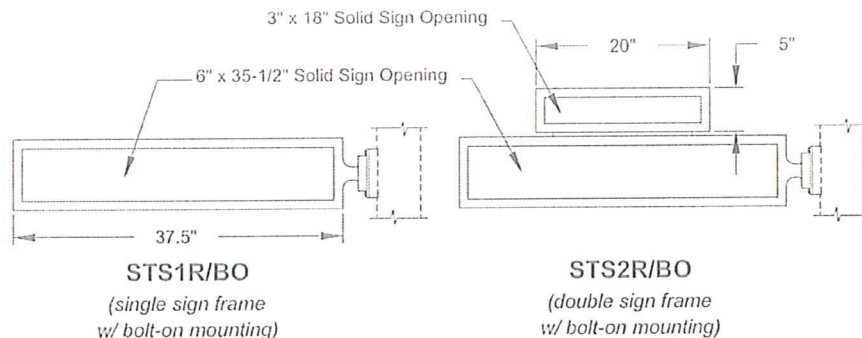
- ☐ /CO Clamp On (Clamps around Post)
☐ /PT Post Top (Mounts on top of Post)

Decorative Options

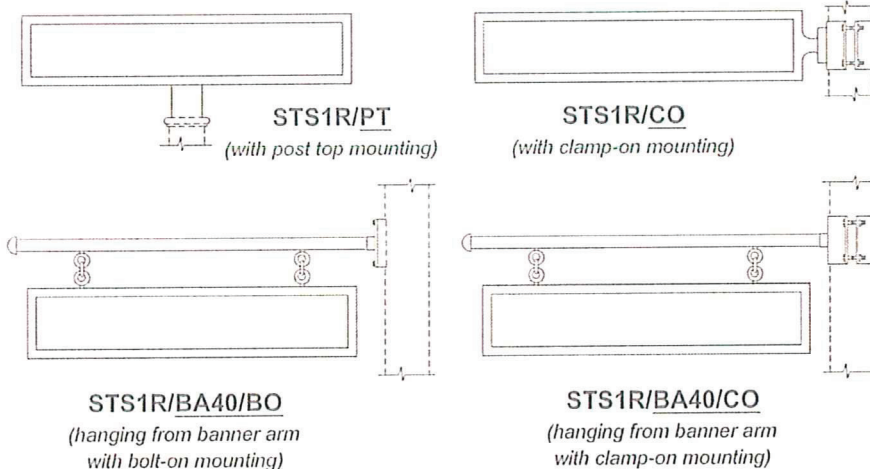
- ☐ /AF Acorn Finial

Street Signs

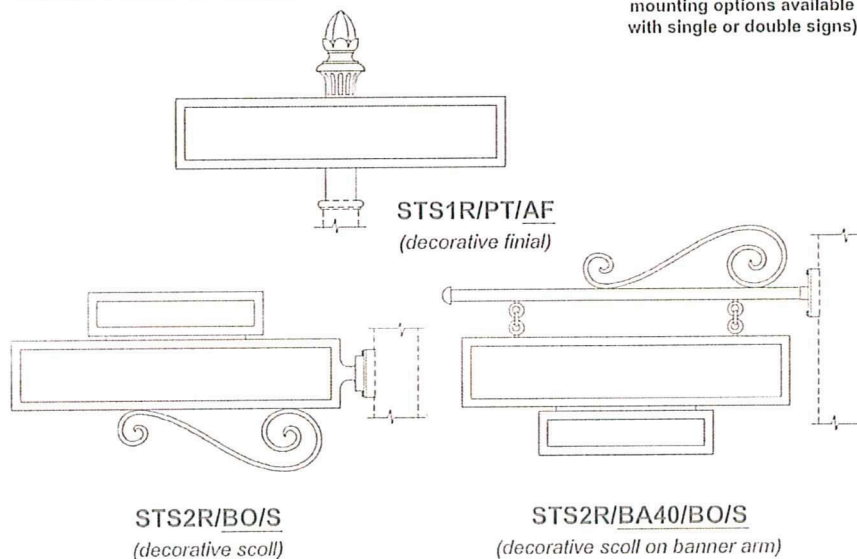
Cast Aluminum Rectangular Frames



OTHER MOUNTING OPTIONS



DECORATIVE OPTIONS



(Note: All decorative and mounting options available with single or double signs)

SPECIFICATIONS

DESCRIPTION

The street sign frame shall be a rectangular shaped, one-piece casting with a solid backing and a 1" thick border. The sign frame has an optional smaller top casting typically used for cross street name. The sign frame is identical on both sides.

CONSTRUCTION

The street sign frame shall be welded to a mounting plate, post clamp, or post top fitter. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per ANSI/AWS D1.2-90 Section 5.

MATERIALS

The sign frame shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The mounting plate, post clamp, post top fitter, and banner arm shall be aluminum, ASTM 6061, heat treated to a T6 temper. All hardware shall be stainless steel.

INSTALLATION

The bolt-on sign frame shall bolt to a mounting channel on the side of the post with four stainless steel screws. The clamp-on mounting shall clamp around the post, secured with four 3/8" hex head bolts. (Post dia. at mounting point must be specified.) The post top mounting shall fit on a 3" O.D. x 3" tall tenon with six 1/4" dia. socket set screws. (Lettering and graphics provided by others) (For information on specifying orientation and mounting heights, see "Orientation Guide" in the back of the Accessories section.)

DIMENSIONS

Sign frame shall measure 37.5" wide and 8" tall with a 6" x 35.5" opening for graphics mounting. The optional smaller frame shall measure 20" wide and 5" tall with a 3" x 18" opening for graphics mounting.

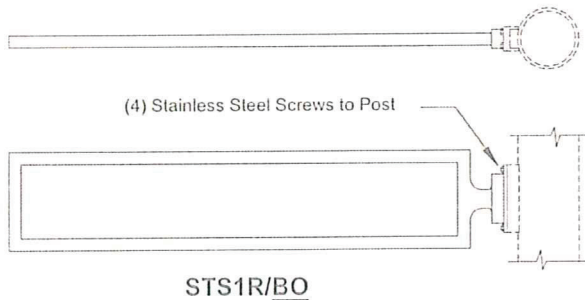
For finish specifications and color options, see "Finish" section in catalog.


HOLOPHANE
LEADER IN LIGHTING SOLUTIONS
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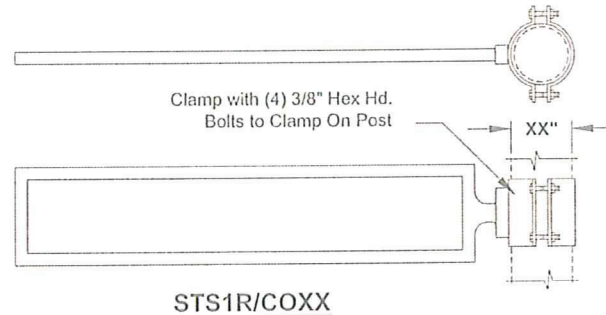
Street Signs Cast Aluminum Rectangular

MOUNTING DETAILS

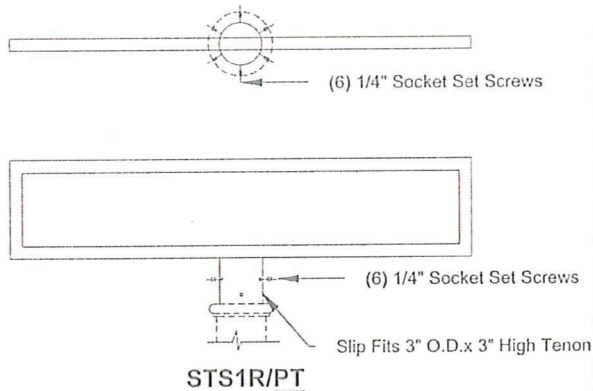
Bolt-On Mounting



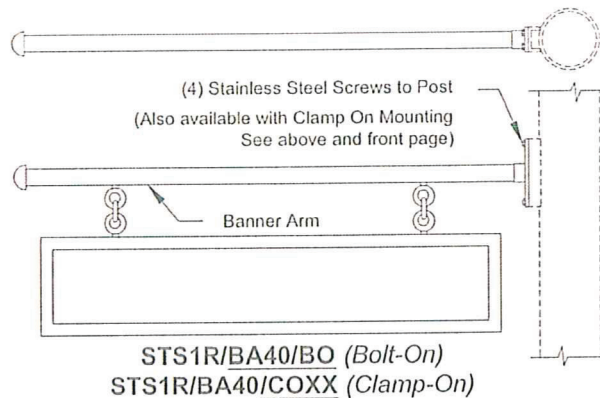
Clamp-On Mounting



Post Top Mounting



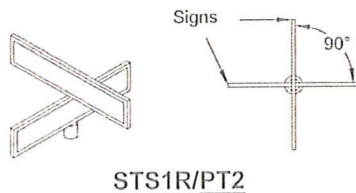
Hanging with Bolt-On or Clamp-On Mounting



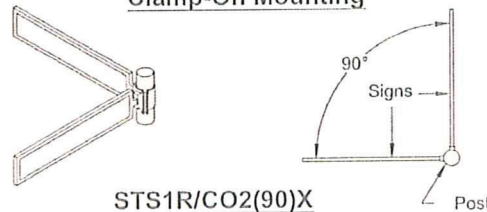
TWIN SIGN ORIENTATION

For Twin Signs (with Bolt-On mounting only) a 2 is added before the part no. (example 2STS1R/BO)
For information on specifying orientation and mounting heights see Orientation Guide in the back of the Accessories section in the catalog.

Post Top Mounting



Clamp-On Mounting



ORDERING GUIDE

sample catalog number
2STS2R/BA40/BO/S-CA/BK

Sign Frame,
2STS2R
Twin, Street Sign, Double, Rectangular

Mounting Option
/BA40/BO
Banner Arm, 40" Bolt On

Decorative Option
/S
Scroll

Material / Finish
-CA/BK
Cast Aluminum/Black

Sign Frames

- ☐ STS1R Single Frame
- ☐ STS2R Double Frame
- ☐ 2STS1R* Twin Single Frame (Bolt On only)
- ☐ 2STS2R* Twin Double Frame (Bolt On only)

* NOTE:

For Twin Signs (with Bolt On mounting only) a 2 is added before the part number.

For information on specifying orientation and mounting heights, see Orientation Guide in the back of the Accessories section in the catalog.

Mounting Options

(fill in ___ with diameter of post shaft, at clamp, in inches)

- ☐ /BO* Bolt On
- ☐ /CO ___ Clamp On
- ☐ /CO2(90) ___ Clamp On, Twin Signs at 90°
- ☐ /PT Post Top
- ☐ /PT2 Post Top, Twin Signs
- ☐ /BA40/BO* Banner Arm, 40", Bolt On
- ☐ /BA40/CO Banner Arm, 40", Clamp On
- ☐ /BA40/CO2(90) ___ Banner Arm, 40", Clamp On, 2 at 90°

Decorative Options

- ☐ /S Scroll (On Sign or Banner Arm)
- ☐ /AF Finial (On Post Top Frame)

Material / Finish

- ☐ -CA/BK Cast Alum./Black (Std.)
- ☐ -CA/DB Cast Alum./Dark Bronze
- ☐ -CA/DG Cast Alum./Dark Green
- ☐ -CA/CC Cast Alum./Custom Color
- ☐ -CA/PP Cast Alum./Prime Painted

HOLOPHANE
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An Acuity Brands Company
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US-2308



Cycle Shed™ Bicycle Lockers-CS™ Series & Electronic eCS Series



CS™ Series and eCS Series Bicycle Lockers by Creative Pipe, Inc. are made to the most stringent specifications and quality standards to provide ultimate security and resistance to vandalism, corrosion, and theft. At Creative Pipe, Inc. we offer lockers made from solid or perforated sheet steel (electro-galvanized mild or stainless) or polyethylene (CS™ Series only).

Since 9-11, we have also offered highly transparent perforated sheet steel lockers. Being transparent, this perforated material greatly increases public security by diminishing the chances that bicycle lockers will be used by homeless people, as drug enclosures, or as a place to store and detonate explosive devices. On our sheet steel lockers, perforation is offered on the door, side, or roof panels, or any combination thereof. On our polyethylene lockers, perforated sheet steel viewing windows are available.

eCS Smart Bicycle Locker

The revolutionary eCS™ Bicycle Locker is the only bicycle locker specifically designed to embrace modern technology and to offer the full range of secure bicycle parking options that modern micro-electronics can offer. Functional characteristics long desired by both cyclists and facilities managers such as keyless on-demand parking, pay-parking, usage monitoring, unattended bicycle rental, and a wide range of other options can now be provided at a reasonable cost by the multi-faceted eCS Bicycle Locker. In addition, eCS Bicycle Locker can also offer traditional assigned-key parking. eCS Bicycle Locker's exceptionally low re-keying costs means that each eCS Bicycle Locker customer is guaranteed to receive a unique, one-of-a-kind key. Finally, eCS Bicycle Locker also offers flexibility of choice in panel materials to custom suit particular security, durability, fire-resistance, weather-resistance, visibility, aesthetic, and budgetary requirements. Equally important, eCS Bicycle Locker's frame-and-panel system is the only system specifically engineered to offer high transparency with maximum bicycle security.

CAPACITY:

Single capacity triangular unit (pictured); single capacity rectangular unit; traditional double capacity rectangular unit diagonally divided with a lockable door on either end (pictured). Designate "eCS1-T", "eCS1-R", or "eCS2" for a single capacity triangular or rectangular eCS or a double capacity eCS respectively.

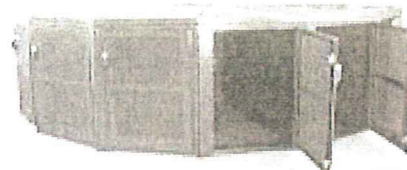
MATERIAL:

Framework & Doorframes: 12 gauge tubular sheet steel.
Infill Options: 12 or 14 gauge perforated sheet steel with 3/8" holes; Solid 14 or 16 gauge sheet steel.
Locks: Electronic locks. Optional keypad.
Locking Bar: Full length stainless steel with three point locking.

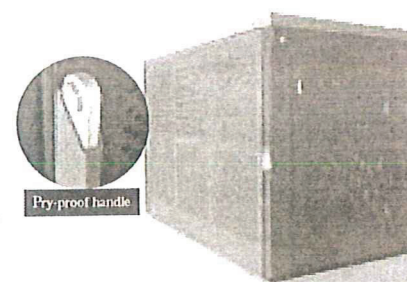
AVAILABLE FINISHES:

Graffiti resistant T.G.I.C. polyester powder; optional stainless steel with a satin finish.

*PLEASE PHONE US OR VISIT OUR WEBSITE FOR MORE COMPLETE INFORMATION ON THIS UNIT.



eCS-T-PP



eCS-PP-PD with optional multi-color panel scheme



Pry-proof handle

Cycle Shed™ Model #: CS 2-C™, CS1-C or CS1-C-T

SPECIFICATIONS

Dimensions: Length: 76"; Width: 39"; Height: 47"
Note: Single capacity units, CS 1-C, are 30" wide.

CAPACITY

1 or 2 bicycles per modular unit (double capacity units are diagonally divided with a door on either end). Units can be used individually or in a linear fashion with other units sharing a common wall. Single capacity units are also available. Please designate "CS1-C" for a single capacity rectangular unit or "CS1-C-T" for a single capacity triangular unit.

MATERIAL

WALL AND TOP PANELS: 16 gauge sheet steel.
Optional 14 gauge sheet steel; optional 12 gauge perforated sheet steel.

DOOR PANELS AND DOOR FRAMES: 12 gauge sheet steel; optional perforated 12 gauge sheet steel door panel.

DIAGONAL PARTITION: External grade OSB.
Optional sheet steel or perforated sheet steel.

CONSTRUCTION

Heavy duty 12 gauge tubular steel door frames at both ends.
All fasteners are internal.

Hinges

Heavy duty full length 14 gauge stainless steel piano door hinges.

Locks

Door locks are pop-out T-handles with removable lock cylinder manufactured by either the Tubar Lock Company, Ace Lock Company or the Medeco High Security Lock Company. Locks are individually keyed and equipped with a vertical locking bar which runs the full length of the door from top to bottom. Locks can also be master keyed. Also available with padlock/"U" Lock handles to accommodate either a padlock or "U" lock. (See photo below)

FEATURES AND ACCESSORIES

Number plates (sequentially numbered).
Proprietary stainless steel surface mounted leveling and anchoring system.

FINISH

Graffiti resistant polyester powder coat. Over 180 colors available. Two-tone or multi-color schemes available. Optional stainless steel lockers with satin finish available upon request.

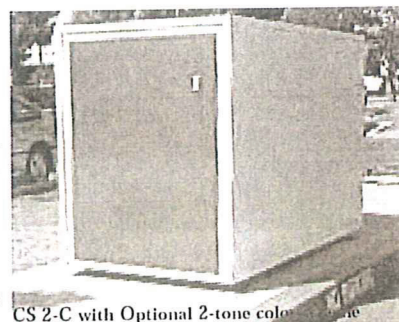
INSTALLATION

Flanged Surface Mount: Proprietary surface mounted leveling and anchoring system secured by stainless steel anchor bolts and possessing a maximum vertical adjustment of 5 inches.

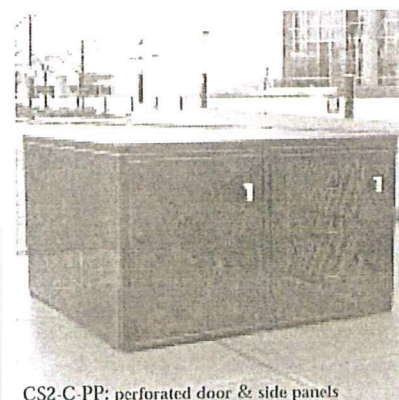
Assembly

Lockers ship broken down for on-site assembly. Doors are factory assembled and hung in their frames prior to shipment.

Accommodates either a Padlock or "U" Lock



CS 2-C with Optional 2-tone color scheme



CS2-C-PP: perforated door & side panels



Specifications

Division 12 – Furnishings
#12 93 00, Site Furniture
#12 93 13, Bicycle Racks

SPECIFICATIONS FOR BOLA™ BICYCLE RACK

05/2006

1. PRODUCT NAME

Site and Street Furniture:
Bola bicycle rack

2. MANUFACTURER

Landscape Forms, Inc.
431 Lawndale Avenue
Kalamazoo, MI 49048
Phone: (800) 521-2546
Phone (269) 381-0396
Fax: (269) 381-3455
Email:
specify@landscapeforms.com

Landscape Forms products are supported by the following manufacturer's qualifications that must be considered to evaluate a product claimed to be an equal substitute.

A. We have been designing and manufacturing site furnishings for the commercial building industry for 35 years.

B. We have an installed base of products worth in excess of one hundred million dollars.

C. We have assets in excess of twenty million dollars.

D. We are able to fill orders within a 40-day schedule.

3. PRODUCT DESCRIPTION

Specifications are subject to change without notice.

Basic Use: For heavy use, public space bicycle rack to be used to secure bicycles when left unattended.

Capacity: Two bicycles.

Composition and materials:
Constructed of 1.5" o.d. x .120" wall type 304 stainless steel tubing.

Sizes, Mounting Options, Finishes:

Sizes: Overall installed dimensions are 1-1/2" deep by 27-1/2" wide by 32" high.

Mounting Options: Embedded only.

Finish: #4 satin finish on bare metal.

4. TECHNICAL DATA

Recycled Content: Bola has a recycled material content of 65% or greater. Post consumer content is 50% or greater and pre consumer content is 15% or greater. Bola is 100% recyclable.

5. INSTALLATION

Installation is to be done by Customer or his agent in accordance with specifications of Customer's architect or planner.

6. AVAILABILITY AND COST

Availability: Orders are processed after a signed purchase order or letter order plus approval of all shop drawings or special options (if required). Delivery time varies depending on time of year and customer requirements.

Costs: All prices are from current price list and are FOB, Kalamazoo, Michigan. For specific prices and delivery time, contact: Landscape Forms, Inc. 431 Lawndale Avenue Kalamazoo, Michigan 49048 (800) 521-2546.

7. WARRANTY

Landscape Forms, Inc. warrants its products to be free from defects in material and/or workmanship for a period of three years from the date of invoice. All claims must be submitted in writing, with copy of invoice to: Landscape Forms, Inc. 431 Lawndale Avenue Kalamazoo, Michigan 49048

Landscape Forms, Inc., hereby disclaims all other warranties, express or implied, including any warranty of merchantability of fitness for a particular purpose. This warranty does not apply to damage resulting from accident, alteration, misuse, tampering, negligence, or abuse.

landscapeforms™

431 Lawndale Avenue, Kalamazoo, MI 49048
PH: 800.521.2546, PH: 269.381.0396, FX: 269.381.3455

Specifications

Landscape Forms, Inc. shall, at its option, repair, replace, or refund the purchase price of any items found defective upon inspection by an authorized Landscape Forms service representative.

The foregoing shall constitute the sole and exclusive remedy of the buyer.

Purchasers should be aware that normal use of these high quality products might result in superficial damage affecting the finish. Scratches, nicks, and dents are to be considered normal wear and tear, and are not the responsibility of Landscape Forms.

8. MAINTENANCE

Bola is maintenance free.

9. TECHNICAL SERVICES

Call Landscape Forms, Inc. for information.

10. FILING SYSTEMS

Additional information and samples are available from manufacturer upon request.

landscapeforms™

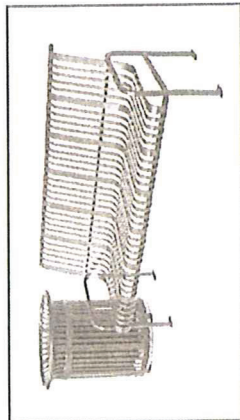
431 Lawndale Avenue, Kalamazoo, MI 49048
PH: 800.521.2546, PH: 269.381.0396, FX: 269.381.3455

The MIDTOWN Series

Litter receptacle

Bench with back is covered by patent no. des. 457,742. All other Midtown pieces are Exclusive By Design™.

Beautify your surroundings with Keystone Ridge Designs' exclusive collection of litter receptacles. The Midtown allows you the freedom to coordinate with a bench series, or mix and match for an eclectic motif.



ASH CAPACITY LIDS



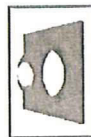
Ash Dome



Ash Dome



Ash Mount



Ash Dome



Elevated Ash



Ash Mount

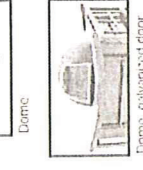
WEATHER-PROTECTANT LIDS



Elevated



Dome



Elevated

Dome, galvanized door

- Coordinating benches, ash urns, planters, tables and other furnishings
- Exclusive KEYSHIELD® polyester powder coating finish—our stamp of armored excellence that is foremost in the industry
- Fully assembled unit

Standard Features

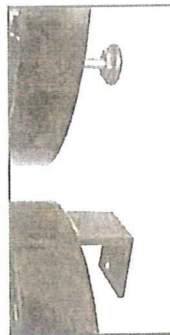
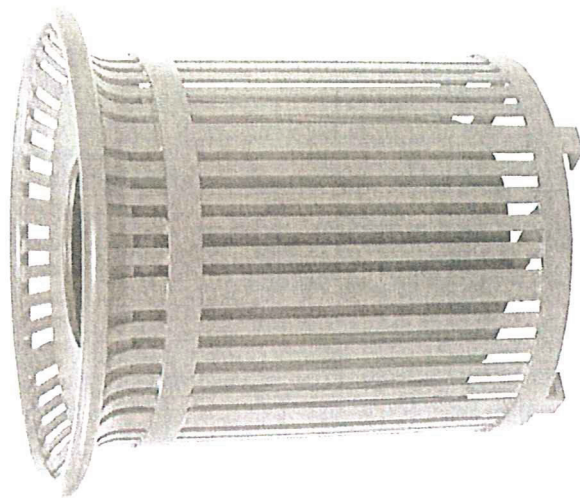
- Color: standard KEYSHIELD® powder coat
- Liner: commercial grade plastic
- Lid: matching flat lid with anti-theft lanyard
- Support: elevated or adjustable

Custom Options

- Color: custom KEYSHIELD® powder coat
- Liner: galvanized or powder coated steel
- Sleeve: KEYSHIELD® powder coat color
- Lid: elevated, elevated ash, dome, ash dome, dome with galvanized door, recycling and trash
- Support: bury extension

Enhancements

- Ash filler
- Ash sifter
- Custom printed decals
- Cast bronze plaques
- Custom laser cut plaques



Lid options



Trash Flat



Recycle Flat



Recycle Flat



1-800-284-8208

www.keystoneridgedesigns.com

The MIDTOWN Series

Litter receptacle

Bench with back is covered by patent no. des. 457,742. All other Midtown pieces are Exclusive By Design™.

KEYSHIELD® Metal Finish

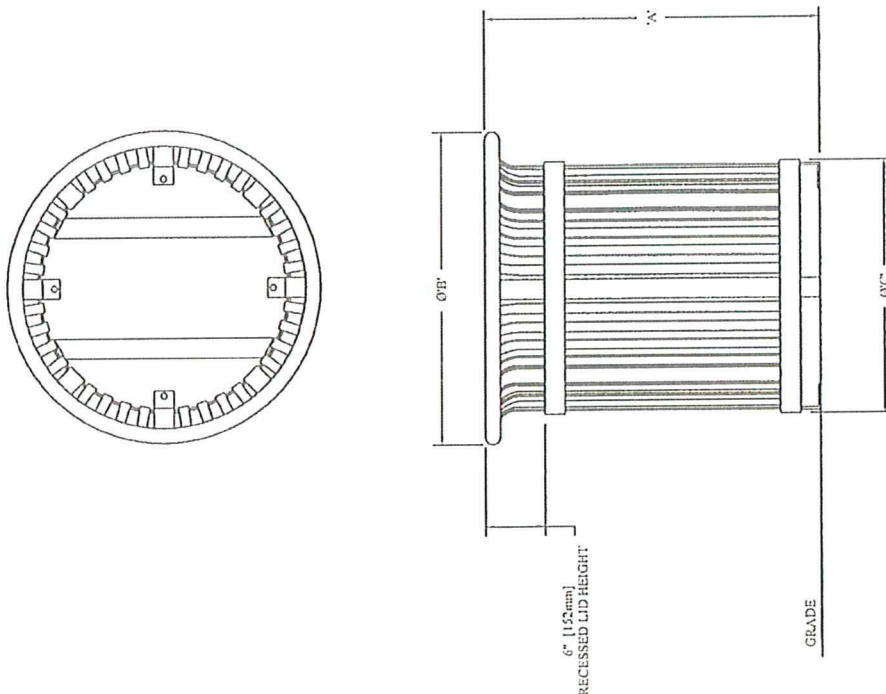
The KEYSHIELD® finish protects each piece of furniture from chipping, cracking, UVa damage and provides unparalleled corrosion resistance. KEYSHIELD® is strength, durability and quality - our assurance of armored excellence. Steel products are finished with a two-coat powder coating process applied to a 7-15 mil thickness. Substrate preparation includes sandblasting to a white finish to remove all surface contaminants, the ultimate degree in powder coat preparation. The raw product then receives a corrosion-inhibiting phosphate coating prior to the application of the powder coating. The first coat applied to the substrate is zinc rich epoxy powder primer used exclusively on sandblasted parts. The second coat is a colored polyester powder coating. Both coats are electrostatically applied and oven cured according to powder coating manufacturing specifications to create a smooth, satin-like finish. The result of this two-coat process is an optimum non-porous armor that defines the Keystone Ridge Designs' stamp of quality. KEYSHIELD® is a registered trademark of Keystone Ridge Designs, Inc.®

Fully Assembled Unit

The Midtown litter receptacle is manufactured as a fully assembled unit to provide ultimate stability and avoid damage during transit to the site.

Proprietary Statement

Keystone Ridge Designs, Inc.® is proud to offer the design community exceptional site amenities. Due to the time and resources invested in designing, manufacturing and marketing Keystone Ridge Designs' products and services, we pursue design patents, copyrights, trademarks and service marks whenever possible. Any unlawful duplication or misrepresentation of Keystone Ridge Designs' products will be rigorously protected.



1-800-284-8208

www.keystoneridgedesigns.com

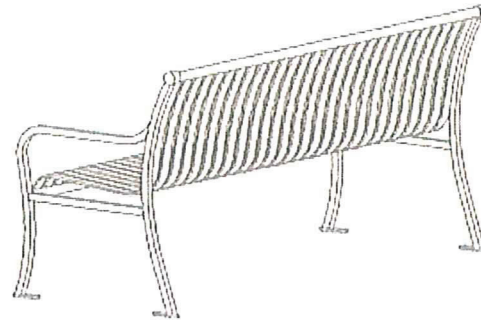
Item #	Description	Diameter (B)	Overall Height Elevated Leg (A)	Adjustable Leg	Lid Diameter	Weight
MT3-22	Midtown litter receptacle 22 gal	26"	27 1/4"	26 5/8"	19 1/2"	136 lbs
MT3-32	Midtown litter receptacle 32 gal	31 1/4"	33 1/2"	32 1/2"	23 5/8"	164 lbs
MT3-38	Midtown litter receptacle 38 gal	31 1/4"	33 1/2"	32 1/2"	23 5/8"	175 lbs

CITYVIEW BENCHES

www.sitescapesonline.com :: info@sitescapesonline.com

CityView Steel Bar End Benches

A popular vertical strap design, the CityView bench is suited for many urban seating solutions. Delivered as a fully assembled, rigid welded unit, this bench bolts directly to a concrete pad for permanent installation and is virtually vandal resistant. In addition to requiring no assembly, this bench remains maintenance free.



Standard Lengths

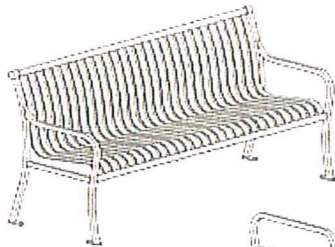
The CityView benches are available in standard lengths of

6 ft. - Actual bench length is 72".

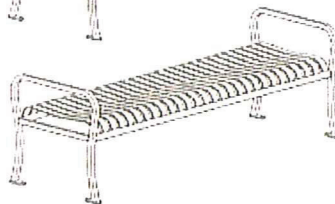
8 ft. - Actual bench length is 96".

Bench Style Options

The standard CityView bench (**CV1-1000**) is a backed seating unit.

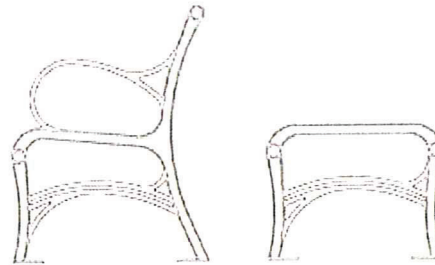


For a lower profile look a flat panel CityView bench (**CV1-1100**) is also available.



Cast End Option

The CityView cast end captures the tradition of a cast iron bench while producing a modern art-nouveau style. Both backed and flat benches are available with cast iron ends.



Arched Back Option

Backed CityView benches are also available with an arched seat panel (**CV1-1200**). This option adds some additional contour to the standard CityView bench.

Mounting

Benches are secured with four 1/2" dia. x 4-5" long stainless steel anchor bolts (customer supplied).

Materials

Seat straps - 5/16" x 1 1/2" steel flat bar

Support pipe - 1" dia. schedule 40 steel tubing

End units - 1" square solid steel bar

Foot plates - 5/16" x 1 1/2" steel flat bar

Center Armrest Option

CityView benches are available with a matching 1" square steel bar center armrest. Armrests are welded in place and either one or two are available per bench.

To Specify CityView Benches

CityView Benches	
1 - 6 ft. Length	
2 - 8 ft. Length	
0 - Backed	
1 - Flat	
2 - Arch Backed	
0 - Steel Bar Ends	
1 - Cast Iron Ends	
4 - Steel Bar Ends, No Armrests	
0 - No Center Armrests	
1 - 1 Center Armrest	
2 - 2 Center Armrests	
PF - Powder Coat Finish	
DF - Duracoat Finish	

CV 1 ☐ ☐ ☐ ☐ ☐ ☐ ☐

Pedestal Mounted Drinking Fountain



Model 3511 is a "Hi-Lo", barrier-free, antique style, historic fountain made of heavy-duty cast aluminum with a powder-coated finish. It is designed for pedestrian and physically challenged users. It is suited for architectural styles exhibiting an "old town" ambiance, as well as playgrounds and parks. The standard color is black; other colors available at additional cost. Please contact customer service for a color chart or samples.

Model 3511 meets current Federal Regulations for the disabled including those in the Americans with Disabilities Act. Haws manufactures drinking fountains, electric water coolers and electric drinking fountains to be lead-free by all known definitions including ANSI/NSF Standard 61, Section 9, California Proposition 65 and the Federal Safe Drinking Water Act.

Components:

Bubbler Head: Model 5705, sculpted, polished chrome-plated brass, shielded, anti-squirt, integral basin shank, vandal-resistant bubbler head features laminar flow to prevent splashing.

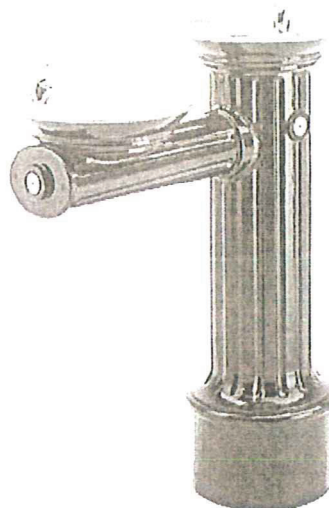
Valve: Model 5874, patented* lead-free forged brass, push activated, front accessible for stream adjustment and servicing, replaceable pressure regulation control cartridge. (Patent No. 6,981,692).

Waste Strainer: 0005624292 is a satin chrome-plated vandal-resistant waste strainer with anti-airlock draining feature. 1-1/2" NPS.

Push Button: Model PBA7, push button assembly has a polished chrome-plated finish.

Accessory: 0006983506 Spanner wrench is used to remove the PBA6 and PBA7 push button cover used with the 5874 valve. Also used to remove retaining ring for replacing the cartridge and screen (VRK5874 kit) in 5874 valve assembly.

3511



Options/Accessories: (Additional costs may apply)

Freeze Resistant Pedestal Drinking Fountain: Model 3511FR, "Hi-Lo", barrier-free, freeze-resistant, antique style historic fountain made of heavy-duty cast aluminum with a powder-coated finish.

Bubbler Head: Model 5725 EnviroGard™ bubbler is a polished chrome-plated solid brass bubbler head with stainless steel water activated pop up canopy. (Patent No. 7,025,282)

Hose Bib: Model 6276, compression hose bib faucet assembly with rough chrome-plated finish.

Bib Faucet: Model 6250LF, self-closing, plain end, lead-free, brass bib faucet with polished chrome-plated finish.

Sand Trap: Model 6635, sand trap has a see through acrylic canister with lifting handle. Sand trap is installed within the pedestal fountain which prevents tampering to the collection canister. Installation of this sand trap precludes the use of the 6276 hose bib and the 6250LF bib faucet.

Sand Trap: Model 6611, sand trap for installing adjacent to pedestal drinking fountains to help prevent debris and contaminants from clogging waste line.

Premier Colors: Nine powder-coated colors, (green, silver, red, blue, black, brown, orange, yellow and white), available for an additional charge.

Premier Finishes: Haws standard satin or high polished finishes in stainless steel, rose or gold available. Specify model with finish by name.

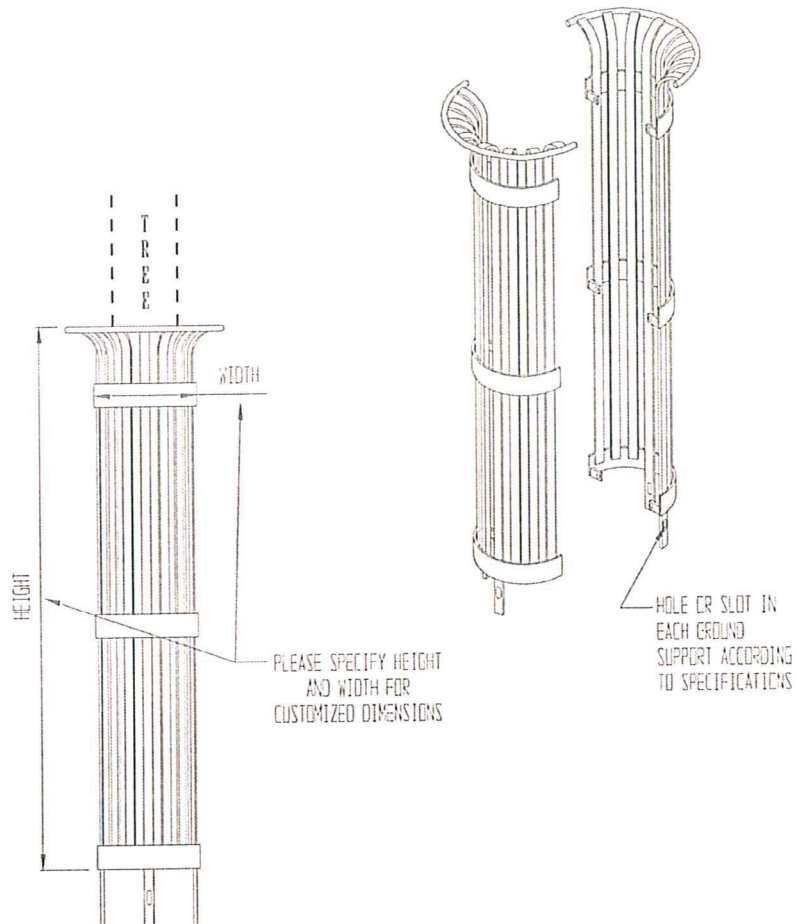
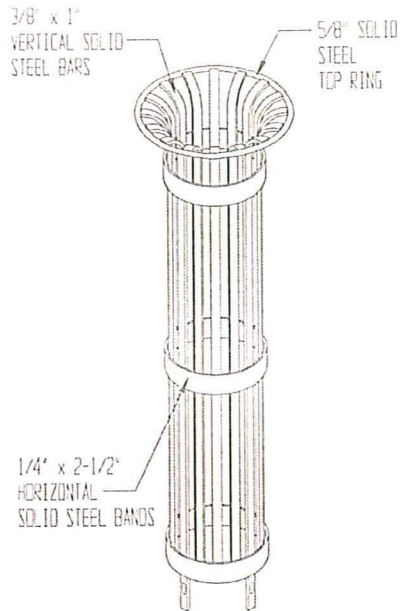
DISCLAIMER: Continued product improvements make specifications subject to change without notice. Check www.hawsco.com for the latest product information and updates.





VICTOR STANLEY, INC.
-Manufacturers of Quality Site Furnishings since 1962-

P.O. DRAWER 330 - DUNKIRK, MD 20754 USA
TOLL FREE: (800) 358-2573 (USA & CANADA)
TEL (301) 855-8300 - FAX (410) 257-7579
WEB SITE: [HTTP://WWW.VICTORSTANLEY.COM](http://www.victorstanley.com)



AVAILABLE OPTIONS:

POWDER COATING
10 STANDARD COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE)

WIDTH & HEIGHT

CUSTOM HEIGHT AND WIDTH: PLEASE SPECIFY FOR CUSTOMIZED DIMENSIONS

NOTES:

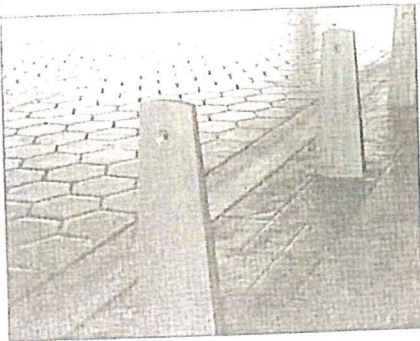
1. DRAWING NOT TO SCALE. DO NOT SCALE DRAWINGS.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD COATING FILM. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH COAT AVERAGES 8-10 MILS (200-250 MICRONS).
3. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
4. ANCHOR BOLTS PROVIDED BY OTHERS.
5. FOR HIGH SALT ABUSIVE CLIMATES, HOT DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. SEE WRITTEN SPECIFICATIONS FOR DETAILS.
6. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
7. THIS PRODUCT IS SHIPPED PARTIALLY UNASSEMBLED.



S-6

IRONSITES® SERIES TREE GUARD

BOLLARDS



Our bollards are handsome vertical columns whose function is to guard by architecture & confident design. Not only do our bollards work as for the separation of pedestrian and vehicle traffic, they also work as decorative light sources. Various mounting styles are available, and our bollards can be customized for name or one where security is required.



SAN FRANCISCO



8-2C1



CB



DG5



DG1
with light



DG2
with light



SJ-C1



DG4

SPECIFICATIONS

BOLLARDS

Depending on style, Bollard bodies will either be cast or fabricated.

Material—Fabricated Bollards:

Steel cylinders with cast aluminum tops and bases. Standard finish is Powdercoat.

Material Options—Cylinders:

Stainless steel, Aluminum

Finish Options for cylinders and trim castings:

Paint (wet coat), Brushed, High Polish

Sizes:

4", 6", 8", 14" Diameter x 24"-36" height, or as specified.

Material—Cast Bollards:

Standard material is cast Aluminum (Iron for SJC1). Standard finish is Powdercoat.

Material Options:

Iron, Ductile Iron, Bronze, Nickel Bronze

Finish Options:

Paint (wet coat), Brushed, Patina, High Polish

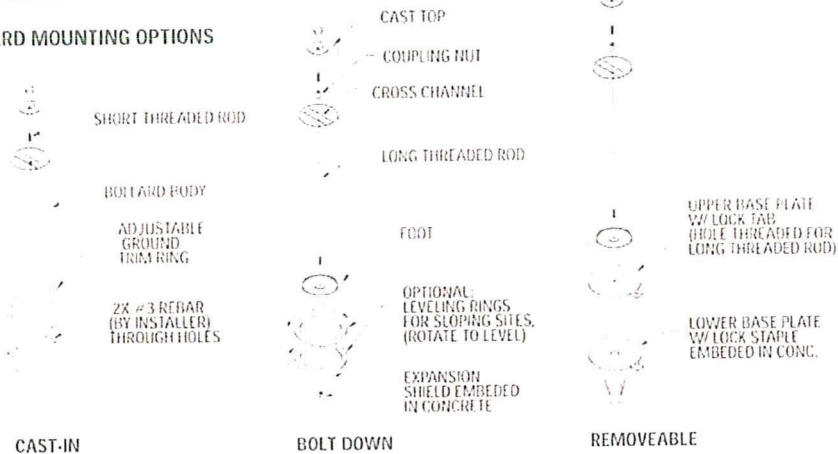
Lighted Bollards:

Light sources are UL listed and all lighted bollards come equipped with the necessary hardware needed for installation.

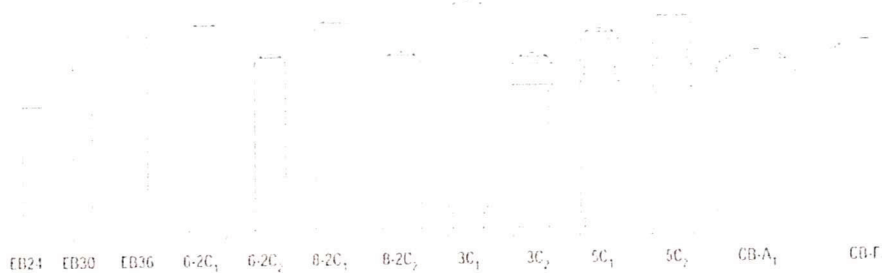
Mounting Options:

Cast-in, Bolt-down (surface mount), or Removeable (see below).

BOLLARD MOUNTING OPTIONS



URBAN ACCESSORIES CLASSIC BOLLARDS



BIKE RACKS

Materials:

Formed and welded steel construction. Standard finish is powdercoat. Optional finish is hot dip galvanize.

Mounting Options:

Bolt-down (surface mount), or cast in place.



Gloss Black



Semi-Gloss Black



Brahman Beige



Bronze Brown



Carousel Red



Cast Iron Grey



Florentine Blue



Haggard Blue



Pioneer Sq. Green

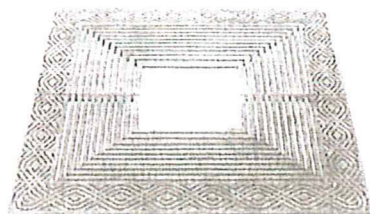


Rose Bisque

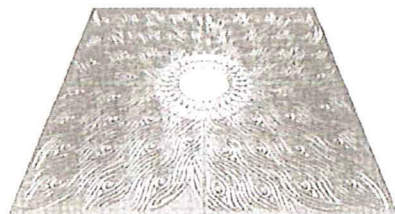


TREE GRATES

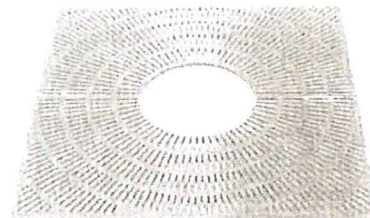
STATE OF TEXAS, COUNTY OF DALLAS.

[illegible]

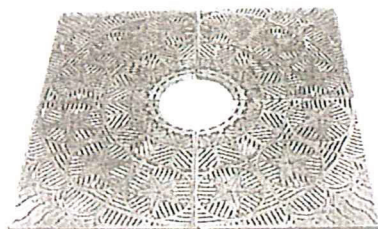
* CHINOOK
3, 4, 5, 6 SQ
42, 5 RD
4X6 RCI



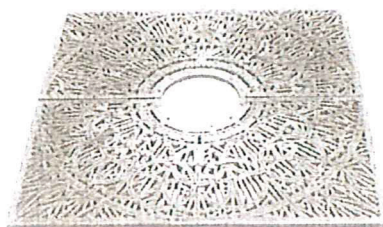
• PAVONE
5 SQ



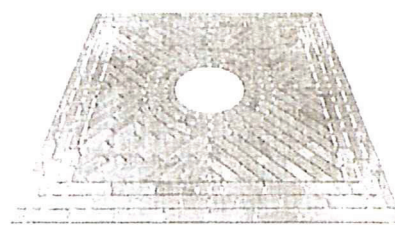
* KIVA-SQ
3, 4, 5, 6 SQ
3x5, 3x6, 4x6, 4x8, 5x8, RCI



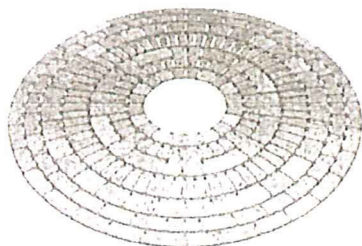
* NORTH STAR
5' SQ
5' RD



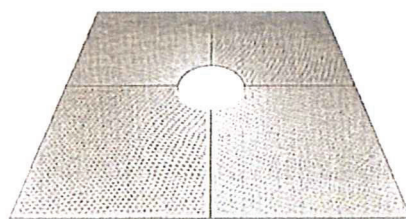
* 01 HILE-24
3', 42", 4', 5', 6', 8' SQ. RD. COMBO
3x5', 3'x6', 4x6', 4x8', RCI



* PROSPECT
5' SQ



• COBBLESTONE
5' RD

*VIPER
5' 80

* FLAT RAINBOW
2' 6", 3', 4', 5', 6' RD
4', 5', 6' SQ

REAL ACCESSORIES

Figure 1. Schematic diagram of the experimental setup. The subject is seated in a chair and views the target through a video camera. The target is a light source that is controlled by a computer. The subject's hand is positioned at the target location. The target is a light source that is controlled by a computer. The subject's hand is positioned at the target location.

DE

SPECIFICATIONS

TREE GRATES, TRENCH GRATES, DRAIN COVERS, MANHOLE COVERS, & BUILDING BUTTONS

Materials:
Cast Iron per ASTM A48 class 35b or better.
Standard finish is raw cast grey iron.

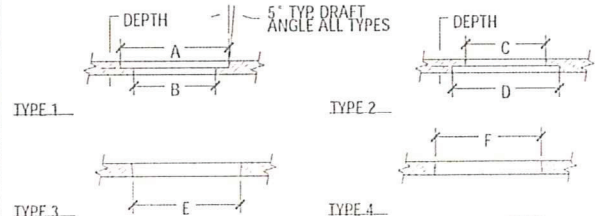
Materials Options:
Cast Aluminum per ASTM B26, Cast Ductile Iron (for vehicular traffic), or Cast Bronze per ASTM B271.

Finish Options:
Iron & Ductile Iron- Powdercoat, Paint (wetcoat), & Prime Coat.
Aluminum & Bronze- Powdercoat, Patina, Brush, & High Polish.

Lightholes, Electrical Access Holes, Fountain Jet Holes:
All patterns available with holes to accommodate fixtures, per customer specifications.
Also available: cast metal and lexan covers.

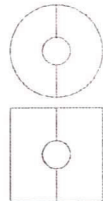
Sizes:
Dimensions stated are nominal. Due to variations in metal, shrinkage amounts may vary slightly from casting to casting; and may affect over-all length of trench runs.
Castings typically measure 1/8" under the size called out.
Frames are typically 5/8" oversized.
For exact dimensions, call Urban Accessories directly.

CUSTOM LIGHT PORT ORDERING INFO

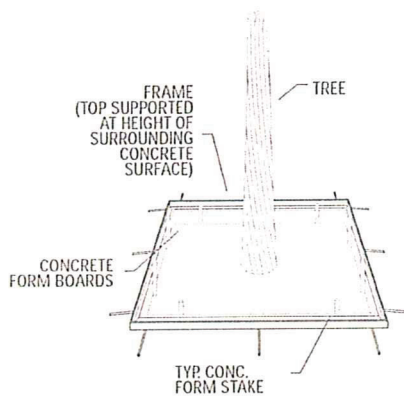


INDICATE LOCATION/TYPE OF LIGHT PORT(S)
NOTE DISTANCE FROM OUTSIDE EDGE(S)
TO CENTER OF LIGHT PORT
IF A LIGHT PORT STRADDLES TWO SECTIONS,
THERE WILL BE TWO PATTERN CHARGES

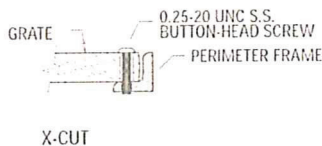
3' & 4' TREE GRATES = TWO SECTIONS
5' TREE GRATES = 4 SECTIONS
6' TREE GRATES, VARIES PER PATTERN



FRAME DETAILS



TREE GRATE FRAME INSTALLATION
STANDARD "S" FRAME USED AS CONCRETE FORM.
STAKES OR SPREADERS REQUIRED TO KEEP FRAME FROM DEFORMING DURING CONCRETE PLACEMENT



GRATE BOLT-DOWN DETAIL

<p>"S" STANDARD USED WITH NEW SURROUND SLABS</p>	<p>"R" RETRO FIT USED WITH EXISTING SURROUND SLABS</p>	<p>INVERTED "R" USED WITH EXISTING SURROUND SLABS</p>
<p>"P" PAVER USED WITH PAVERS, SAND SETTING BED</p>	<p>"A" ADJUSTABLE USED WITH PAVERS, GROUT SETTING BED</p>	<p>"P/A" PAV/ADJUSTABLE USED WITH PAVERS, CONTINUOUS SKIRT</p>